

Tag Nos. begin on page 101.

Notes etc. J.B. Henderson

"Eolis, Jr." 27-foot launch.

Station Records Barbados -
Antigua Expedition of Iowa
University - May & June
8.



ing Stations 1 to 101.
are Barbados - off West
Coast - see chart in Red
ink -

ing Stations 102 to
are Antigua - off English
Harbor.



Old Bridge, N.J.
Feb. 20

786

Tag Nos. begin on page 101.

Notes etc. J.B. Hurdson

"Eolis, Jr." 27-foot launch.

Station Records Barbados -
Antigua Expedition of Iowa
State University - May & June
1891-1918.

Dredging Stations 1 to 101.

are Barbados - off West
Coast - see chart in Red
ink -

Dredging Stations 102 to
are Antigua - off English
Harbor.

1

Sunday. May 12/18

Owing to illness no collecting done other than some Oxytyla (Tag 3) in Dr Baunester's garden - also some Borus which failed to expand properly. - Today some few things gathered at low tide among the exposed blocks of dead coral (Palika Island) but being under restriction from getting wet - was unable to do any serious work - Remarkably few things - (Tags 1 and 2).

Monday. May 13/18

Dr. Sta. 1. ✓ We tried for an early start in the launch to dredge, taking Mr Burke, a native fisherman of supposed great knowledge of bottom conditions. - We had on board, beside, Penelaw, Burke - myself - Widdow, Eusign, Job & Stoner. - We made but one haul in (estimated by Burke) 38 fms. - on coarse dead bottom evidently on the edge of rougher bottom.

The high sea & current conditions were so unfavorable for work we stopped & returned -

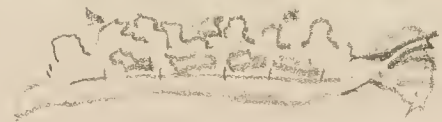
Tag 5. The party that went with the diver brought in the material under Tag 5. It is chiefly taken from dead coral blocks etc by breaking them open.

Eolid

See family
Syllacidae
Hacitester
(Pilsen) P. 195

The Eolid taken bet. tides is fully extended about 1 inch - elongate narrow - the entire dorsal portion consists of foliaceous processes all apparently joined & dull yellow in color. The ^{mantle?} parapodia fold over the tail somewhat overlapping & their complicated margins form the foliaceous processes. The body is light pea green with a fine black line on either side - dull white below. The tentacles are narrow at base & distended at the ends.

iridescent
pink & violet
in the folds.



very light green
yellow

The tentacles seem also to be mere folds of the epipodium resembling in shape a white calla lily. - A larger specimen 2 inches long - in this the black line is modified into oblong patches of white as though egg shaped masses within the transparent outer skin. The yellow of the frilled edges is rather confined to the margins or edges. Orange spots on another. On another green body.

A specimen of Tritonium tritoni (Living) was taken today in intertidal region but was not kept - large & body encrusted.

Eolid (2)

Bottom of foot white sprinkled with brick red dots. granulated appearance all over brick red and white; the edge of foot & mantle with a dark yellow border. Rhinophores brown - frontal veil. The entire dorsal portion with little raised papillae having fringed (with brick red) borders. Over the back posteriorly a process stands out (anal?) The creature seems constantly to change his dorsal appearance as to this process. - these sometimes appearing to be more than one. These processes are after all only folds in the mantle edge -



The great quantity of papillae giving the granulated appearance are either white or red - the white ones having a red dot on the end & the red ones having sort of scalloped edges. Foot very broad, & dorsal flap - mantle, still broader & fluted along the edge.

Mr. Job has been killing the land branches with Cocaine.

Wednesday, May 15/18

- Dr. Sta 2 Tangles - near Pelican Isl. - 50 feet. rocks
 " " 3 Dredge - 75 to 80 fms - Sand - off Pelican Wst
 by N. 2 miles - fine full haul
 with Brachyopods. dredge
 " " 4 110 fms - Rough - 1/2 mile N. of Sta. 3.
 (Crinoid) dredge
 " " 5 100 fms - Sand & fineally Rough - 1 mile
 N. of Sta. 4 - Cerithiopsis - dredge
 " " 6 about 100 fms - Rough - off Spring
 Gardens or Fresh water bathing place.
 (Pleurotomaia) dredge -

Thursday, May 16/18

- Dr. Sta
 7 Same as Sta. 3. - about 80 fms - Rocky.
 Tangles.
 D.S. 8 100 fms - 1/4 mile N. ^W N. ^E of Sta. 7. off
 white building - Rocky - Tangles.
 D.S. 9. 1/2 mile N. of 8 - about 100 fms - Rocky -
 Tangles.
 Dr. S. 10 Beginning with end of last Sta. drifting
 off - fine sand - dredge -

Dorid
 ③

Taken from inside block of coral -
 About an inch long - Red with yellow
 border. Rhinophores redder than balance
 Anal plumes lighter except red bordered.
 All over back finely spotted in red & white



Friday, May 17.

Dr. Sta.

11.

1 1/4 miles W. from Needham Point Light in 65 to
 70 fms. Stony bottom - Comatulids - Dredge.
 Excellent ground.

Dr. Sta 12

Tangles. 1/2 mile N. of Sta. 11. Same depth.
 Rough bottom.

D.S. 13

Dredge - Due W. of Pelican Island 2 1/2 miles
 Coarse Sand - 100 fms.

D.S. 14.

1 1/2 miles W. by N. from Pelican Island
 Rough - 65 fms.

D.S. 15

About 200 yards from end of last Sta. west.
 Rough, Stony, 75 deepening to 100 fms
 Dredge.

D.S. 16.

Tangles - 1/2 mile N.W. of Pelican Island.
 Rough 40 fms.

- D. Sta. 17 Dredge $1\frac{1}{2}$ miles west of Needham Point.
Coarse sand. 59 fathoms.
- D.S. 18 Dredge $\frac{1}{2}$ mile west of 17. Coarse sand
✓ 40 fathoms
- D.S. 19 Dredge $1\frac{1}{2}$ miles west of Needham Point
80 fathoms. Rocky.
- D.S. 20 Dredge Off Needham Point 84 fathoms. Rocky
Chain broke.

May 20.

- Dr. Sta. 21 Dredge. 60 fms. Coarse sand. ^{Southeast} ~~West~~ of St.
✓ Matthias Church 1 mile.
- D. St. 22 Dredge. 35 fms $\frac{1}{4}$ mile S. ^E of 21 in shore
4 to 500 yards - Rough.
- D.S. 23 Tangles. 35 fms. In shore 200 yards
from Sta. 22.
- D.S. 24 Tangles. 35 fms. Same as 23. Rocky.
- D.S. 25 Dredge. 80 fms. Same as 22 but ^S ~~west~~ $\frac{1}{4}$
✓ mile - off shore. Coarse sand.
- D.S. 26 Dredge. 75 fms. Due west of Pelican Island
✓ Rough along bottom

- D. Sta. Due west from Pelican Island about 2
27 miles - 85 to 90 fms - Coarse sand.
Dredge.

Shore
Sta. 1.

Harbor - Carlisle Bay - 6 fms. sand & mud.

Sh. Sta
2

Carlisle Bay - 12 fms - fine sand.

May 22.

Dr. Sta.
28

A long mile due west from the Lazaretto
100 fms. + - Bottom? - Only one
Hyaroid & large Ophiurac. Dredge.

Dr. Sta.
29.

Lazaretto bears E. by S. about $1\frac{1}{2}$ miles
off shore about 1 mile - 90-100 fms -
at first stony and then sand - good in
dead mollusks. Dredge.

Dr. Sta.
30.

Lazaretto bears S. E. about 2 miles - off
shore a long mile ($1\frac{1}{4}$) 120 fms. Soft
fine sand - Very good for mollusks -
Astrophylus. Dredge.

Dr. Sta.
31

Long line of Australian Pines on shore bears
E. by N. about 1 mile out. 80-90 fms.
fine sand - not so good as last. Dredge.

Sta. Dr.
32

$\frac{3}{4}$ miles out about same bearing as last
(just off Payne Bay Church) about 50 fms
sand and stones - dead bottom. Dredge.

- D. Sta. 33 Tangles. Straight off Hastings. S. - S.W. 2 miles. 90-100 fms. Smooth bottom. No material.
- D. Sta. 34 S.E. of Hastings 2 miles off shore 80-90 fms. Tangles. Rocky.
- D. Sta. 35 Tangles. S.W. of Mechanics Point 2 1/2 miles off shore - 80-90 fms. Rocky.
- D. Sta. 36 Tangles. S.W. Carlisle Bay, 2 miles off. 80-90 fms. Rocky.
- D. Sta. 37 Tangles. Off Pelican Island. 2 1/2 miles - 100 fms - Rocky.

May 24.

Long Shoal

- D. Sta. 38 Dredge. Over 1 mile West of Bell Buoy - drifted one mile North to about opp. Lazaretto - Fine sand & then pebbles. 130 to 140 fms - Poor ground. Pebbles apparently of shore origin.
- D. Sta. 39 Due West of Lazaretto - 1 1/2 miles out 100 fms + - Fine sand - (Cerithiopsis found) Dredge
- D. Sta. 40 Payne Bay Church bears East, North East - 1 mile off shore - 90 fms. fine sand. Dredge

- D. Sta. 41 Payne Bay Church bears E. by N. - the shore about 3/4 mile off. 75 to 80 fms sand medium fine - coarse. dredge.
- D. Sta. 42 Tangles. Lazaretto bears S.E. by E. - 1/2 mile off shore - 35 fms - Rocky - (crinoid arm)
- D. Sta. 43 Dredge - Same position as last - Rocky with sand patches - (stuff has shallow water aspect)

May 25.

- D. Sta. 44 N.W. of Pelican Island & S.W. of Pelican Is. Lazaretto, 2 1/2 miles off shore, medium coarse sand - 90-100 fms - dredge.
- D. Sta. 45 N.N.W. of Pelican Island due W. of Lazaretto, 2 miles + off shore - smooth bottom - 90-100 fms - Tangles.
- D. Sta. 46 N.N.W. Pelican Island - due W. of Prospect, 2 miles off shore - 100 fms. Tangles.

May 27

- 47 S.W. of Lazaretto. W. by N. of Pelican Island coarse coral sand. 25 to 72 fms. dredge. (a long haul of on steep slope).

D. Sta. W.S.W. of Lazaretto. N.W. $\frac{1}{2}$ N. of Pelican
48 ✓ Bl. - Fine sand, 94 fms. dredge.

D. Sta. N.W. $\frac{1}{2}$ N. of Pelican. W. $\frac{1}{2}$ S. of Lazaretto
49 ✓ fine sand, dredge. 80 fms.

D. Sta. W.N.W. of Lazaretto - N.N.W. of Pelican Isl.
50 ✓ Rocky bottom - 33 fms. Tangles -
(Crinoid stems)

D. Sta. Same location. dredge. (Crinoid found)
51 ✓

D. Sta. Same location - lost dredge.
"52" ~~no station~~

May 29 -

D. Sta. Same location as 50 and 51 - Red
52 ✓ cable house and windmill $\frac{1}{2}$ mile back
in line & about $\frac{1}{2}$ mile off shore -
Rocky bottom - dredge. made several
hauls with poor results - (Crinoid found)

D. Sta. Further off shore with same position
53 ✓ of cable house and mill - Dredge in
from 80 to 100 fms to where rocks
begin at about 35 fms. - Bag full of
coarse sand.

D. Sta. Same location as 51 - dredge. rocky -
54 ✓ almost no results. (Crinoid evidences).

D. Sta. Same location as Sta. 51. Rocky.
55 ✓ dredge. 1 haul.

May 30.

D. Sta. Same location as 51. Rocky - 33 fms. dredge.
56 ✓

D. Sta. 600 yards N. of Sta. 56 - Rocky. 33 fms.
57 ✓ Tangles.

D. Sta. Same as 51. Rocky. Tangles.
58

D. Sta. W. of Cable Station one mile; Rocky: 86 fms.
59 ✓ dredge.

D. Sta. about same as 59 but $1\frac{1}{2}$ miles W. of
60 ✓ Cable Station - Fine sand. - 118 fms. dredge.

May 31.

D. Sta. Holletown Pier E. by S. $\frac{1}{2}$ S. : Pelican Island
61 ✓ S. by E, about one mile out. 80 to 90
fms. Sand. dredge.

D. Sta. Holletown Pier due East. Pelican Island
62 ✓ SSE - $1\frac{1}{2}$ miles off shore. Soft fine
sand with rough patches - 125+ fms.
dredge - (Excellent results for small
mollusks).

D. Sta 63 $\frac{1}{8}$ mile further west than Sta. 62. 150+ fms. - Fine sand + coarser sand and patches of rougher bottom - Dredge. (Good for small mollusks) "Sta. C"

D. Sta. 64 Paynes Bay Church bears E. N. E. & the Logaretto S E by S. - off shore $\frac{1}{2}$ mile - Tangles - Rocky - 50 fms. becoming less as we dredge in toward shore. - Excellent results.

D. Sta 65. Slightly south of last station, the cable house bearing S. E. - 50 fms - Rocky - Tangles.

June 11/18

D. S. 66 W. by N. of Cable Station $\frac{1}{2}$ mile off shore about edge of drop-off 60 to 70 fms - Tangles.

D. S. 67 Same location as last but a little further out - Rocky - 50 to 60 fms (!) Dredge.

D. S. 68 Same as last but a little further in shore Coarse sand - 50 to 60 fms.

D. S. 69 W. by N. of Cable station - a bit further out than last station. Fine sand. 60 to 70 fms. - Dredge.

D. Sta 70 Same as last - but a little closer in shore. Tangles.

D. Sta 71 West by North of Cable station - a mile or so out - dredge. (depth S.)

Monday, June 3rd 1918.

D. S. 72 $\frac{3}{4}$ mile out beyond Bell Buoy. 90 fms. fine sand and broken shells - "Cerithiopsis bottom" (Evidently a good spot but poor success owing to rough sea) Dredge.

D. Sta 73 off Logaretto, 10 to 15 fms - Rocky - Evidently on a rocky shoal. dredge.

D. Sta 74 Telegraph (Cable) station & Wardmill in line 35 fms - Rough, sand & rocks - dredge.

D. Sta. 75 Cable station bears E. by S. - Logaretto E. S. E. $\frac{1}{2}$ S. 35 to 60 fms - Mostly rocky Tangles. Working on steep slope.

D. Sta 76 Due E. from Cable station - Logaretto S E. by E. - 35 to 60 fms - Rocky - Tangles.

D. Sta 77 Cable station bears E. $\frac{1}{2}$ S. - Began one mile off shore, zigzag course N. in 40 to 75 fms - Coarse sand - Dredge - (Dead bottom)

D. Sta. 78 Cable station E S E: Paynes Bay Church, N E. - Off shore $\frac{3}{4}$ mile - Alternat sand, sponge, rocks - 35 to 75 fms. (a rich haul in Comatulids, Alcyonarians)

D. Sta. West by North of Telegraph Sta $\frac{1}{2}$ + mile
79 off - Rocks and sand - 30 to 65 or 70
✓ fms - Dredge.

D. Sta. Same location beginning a little South
80 ✓ Coarse sand. 40 to 75 fms - Dredge.

D. Sta. About same location - $\frac{1}{2}$ mile off
81 shore to about a mile - Rocky - 35
to 60 or 70 fms - Tangles.

D. Sta. $\frac{1}{8}$ mile further North - Rocky - Tangles.
82 depth.

June 6/18.

D. Sta. About a mile West of Bell Buoy -
83 100 fms - rough - Pelican Island bears
E by S. : the Sazanito N.E. - Seems
like good bottom but almost no material
was brought up. Dredge.

D. Sta. Spring Garden beach and Grove E.N.E.
84 ✓ and Weedham Point light S.E. - Off
shore about $1\frac{1}{2}$ miles - 100 fms -
fine sand - For some reason a
poor haul - dredge -

D. Sta. Straight off Sazanito 75 to 80 fms.
85 ✓ Coarse sand - working in - one
fine Comatulid.

D. Sta. About same location - Sand &
86 ✓ rocks - Somewhat less depth to
start - ending on rough - dredge -

D. Sta. Off Sazanito in rough bottom -
87 about 20 fms - Tangles.

Friday, June 7

D. Sta. Sazanito E by N. $\frac{1}{2}$ N., Pelican Island S.E.
88 ✓ Fine sand - Dredge.

D. Sta. $\frac{1}{2}$ mile further off shore, 100 + fms. Fine
89 ✓ sand - dredge.

D. Sta. Sazanito E. $\frac{1}{2}$ S. 1 mile off shore - Hydro-
90 ✓ coralline bottom. Dredge.

D. Sta. Cable Station E. by S. - Pelican Island S.E. by S $\frac{1}{2}$ S.
91 Rough. Dredge.

D. Sta. $\frac{1}{8}$ mile N. of last. Rocky - Tangles. 35 fms.
92

D. Sta. About same as last. 35 fms. Rough. Tangles
93

Thursday June 11

D. Sta. South of Bell Buoy - Rough - 30 fms. Tangles
94 ✓ Crinoid arm.

Wednesday June 12.

- D. Sta. 95 Shoal bank ^{W.} of Needham Point about 3 miles out - 30 fms - Rough - Tangles.
- D. Sta. 96 Same. Dredge. (Agaricia) Rough
- D. Sta. 97 Same. Dredge. Rough.
- D. Sta. 98 Same. Dredge. Rough. (Tripped)
- D. Sta. 99 Same. Tangles.
- D. Sta. 100 Same. Dredge. (hung up & broke pulley).

Thursday June 13.

- D. Sta. 101 ✓ On "Shoal Bank" about 3 miles W. of Needham Point - Several hauls of the dredge in about same locality - Sponge bottom - 25 to 40 fms. -

Antigua Stations.

June 21/18

- D. S. 102 ✓ Mouth of Falmouth Harbor - 7 fms. Mud, small dead shells, stony algae & foraminifera.
- D. S. 103 ✓ Mouth of Falmouth Harbor - Toward West side in 6 fms. Grassy, hydroids, living shells, sand
- D. S. 104 ✓ East side of Falmouth Harbor off sand bar - 3 to 6 fms. Hippurane ground. Grassy bottom.
- D. S. 105 ✓ N. Central part of Falmouth Bay. Coral bottom, 3-5 fms.
- D. S. 106 ✓ Near Entrance of English Harbor.
(A number of unnumbered hauls were made in English harbor as a preliminary try-out).

Sta 113 ✓ { St. John's Harbor
1 mile north of Bell Buoy (10-12 fms) Bottom
broken shell

114

115 $\frac{1}{2}$ mile from English Harbor, (120 fms.)

- No. State University of Iowa Sta. Notes
- 400 - Lazaretto, Pelican Island (U.S. 89) (100 fms)
- 401 - Mouth of English Harbor. Antigua
- 402 - Mouth of Falmouth Harbor (U.S. 102)
Antigua
- 403 - East side Falmouth Harbor (U.S. 104)
Antigua
- 404 - Wedging Sta. 116 (Tag 133)
- = Bought in Bridgetown. (Tag 23)
- 405 - Beach-drift, Pelican Island (Tag 24)
- Curio Shop in Bridgetown (Tag 20)
- 406 Lazaretto E by $\frac{1}{2}$ N. Pelican Island (U.S. Sta. 89)
- 407 Lazaretto E by $\frac{1}{2}$ S. 1 mile off shore (U.S. Sta. 90)
- 408 On Shoal Bank (25-40 fms.) No. Sta. 101
- 409 Pelican Is. by N. 2 miles (75-80 fms) No. Sta. 3.
- 410 Falmouth Harbor-Shore. Antigua -
- 411 Barbados Beach.
- 412 Curio Shop in Bridgetown.

- 413 dredging station 51. (33 fms.)
- 414 Barbados, Record lost, (deep)
- 415 Land Shells from Haynes Estate. Tag 51
- 416 Telegraph (Cable) Station + wind-mill in line, ^{hr. Sta.} 74
- 417 (38 fms.) hr. Station no. 1 Pelican Id.
- 418 Payne Bay Church, E. N. E. (90 fms.) hr. Sta. 40
- 419 Cable Station E. S. E., Payne Bay Church (35-75 fms.) ^{Sta.} 78
- 420 Cable Station E. $\frac{1}{2}$ S. (40-75 fms.) hr. Sta. 77
- 421 Cable Station N. by N. (fms. ?) hr. Sta. 71
- 422 Barbados, shallow water (station no. lost)
- 423 Rocks at mouth English Harbor
- 424 Exchange Bay, Antigua (shore)
- 425 Falmouth Bay (beach)
- 426 West by N. Cable Sta. (60-70 fms.) hr. Sta. 69
- 427 Cable Sta. (50-60 fms.) hr. Sta. 68
- 428 off. Lazaretto (130-140 fms.) hr. Sta. 38

- 429 Pelican Island, Bell Buoy (10 fms.) Tag 13
- 430 Carlisle Bay (20 feet +) Tag 68
- 431 Carlisle Bay (15-20 ft) Tag. 70
- 432 Given by Haynes N. E. Barbados.
- 433 Haynes Summer place, Tag. 53
- 434 $\frac{3}{4}$ mile beyond Bell Buoy (90 fms.) D. Sta. 72
- 435 near Bell Buoy (10-20 feet) Tag 12
- 436 Pelican, (50-100 fms.) hr. Sta. 53
- 437 West of Cable Station (56 fms.) hr. Sta. 5-9
- 438 N. W. of Pelican + S. W. of Lazaretto (90-100 fms.) ^{hr. Sta.} 44
- 439 Shallow water dredging, Barbados
- 440 Spring Garden Beach + Redham Pt. (100 fms.) ^{hr. Sta.} 58
- 441 $\frac{1}{2}$ miles West of Redham Point (40 fms.) hr. Sta. 18
- 442 Lazaretto (120 fms.) hr. Sta. 30
- 443 Redham Point, Low tide, Tag F2
- 444 - Barbados Sta. (Dr.) 21.

- 445 Pelican Island - Taken from corals in
Shallow water.
- 446 Dr. Sta #5 - 100 fms. Barbados.
- 447 Dr. Sta. 24 (tag 31) 35 fms. Barbados.
- 448 Payne Bay Church, $\frac{3}{4}$ mile off shore (75-80 fms) Hl. Sta. 41.
- 449 Huletown Pier, Pelican Id. S.S.E. (125 fms) Hl. Sta. 62
- 450 Perry Haynes place - Barbados - Scotland
District.
- 451 Pelican, $\frac{1}{2}$ mile N. (100 fms) Hl. Sta. 10
- 452 English Harbor (shallow)
- 453 off Spring Gardens (100 fms) Hl. Sta. 6
- 454 Needham Pt. Light (65-70 fms) Hl. Sta. 11
- 455 N. side Antigua
- 456 Pelican Island, due W. (80 fms) Hl. Sta. 13
- 457 west of Cable Station (118 fms) Hl. Sta. 60
- 458 Pelican Id. $2\frac{1}{2}$ miles north (110 fms) Hl. Sta. 4
- 459 W. by N. of Cable Station (50-60 fms) Hl. Sta. 67
- 460 Lazaretto, due west (100 fms) Hl. Sta. 39

- 461 Land shells Sir Gilbert Carter's
- 462 Lazaretto, S.E. by E. (shallow) Hl. Sta. 43
- 463 1 mile N. of Bridgetown (land shells) Tag 27?
- 464 Needham Point (shallow water) Tag 26
- 465 Land shells, Summer House near shore (Paynes) Tag 52
- 466 Carlisle Bay (12 fms) Shore Sta. 2
- 467 Lazaretto, (75-80 fms) Hl. Sta. 85-
- 468 Land shells from Exchange Bay.
- 469 South of St. Matthias Church (80 fms) Hl. Sta. 20-
- 470 Barbados (80 fms) Hl. Sta. ?
- 471 Parham Bay, Antigua
- 472 Telegraph Sta. $\frac{1}{2}$ miles W. by N. (30-70 fms) Hl. Sta. 49
- 473 Barbados - lost record - probably 100 fms.
- 474 Dredging Sta. 3 (tag 8) - Barbados - 75-80 fms.
- 475 Dr. Sta. 78 (tag 75) - 35 to 75 fms. Barbados.
- 476 Tag 137 - Fresh water Pond bet. English Harbor &
Parham - Antigua -

- 477 Tag 77 - St John's Church, Barbados
- 478 Barbados, Scotland District - (tag 77)
- 479 Bathsheba Barbados (land shells) (tag 93)
- 480 Pelican Island Tide Pools - (tag 16)
- 481 Entrance to English Harbor - Rocks near
Hammocks Pileers
- 482 Bathsheba Tide Pools (Tag. 95)
- 483 2 mile E. by S. of Lazaretto (90-100 fms) hls. Sta. 29
- 484 Falmouth Bay, rocks at low tide, Tags 128 + 129
(land shells)
- 485 Hills around Parkham & Cedar Valley Tag. 142
- 486 Dr. Sta. 80 - Barbados (40-75 fms)
- 487 Mr. Pelin Estate. Dry Pond, Willoughby Bay Antigua
tag 143.
- 488 Antigua - Exchange Bay - Land Shells.
- 489 Antigua, Willoughby Hill Land Shells
- 490 Carlisle Bay (6 fms.) Shore Sta. 1.
- 491 Mouth of Falmouth, west side (6 fms) hls. Sta. 103
- 492 1 mile E. English Harbor. Dr. Sta. III

- 493 Willoughby Bay Land Shells (Tag 143)
- 494 W. N. W. of Lazaretto, N. N. W. of Pelican Id. (33 fms) Sta. 54
- 495 N. W. 2 N. of Pelican, W. 2 S. of Lazaretto (80 fms) Sta. 49
- 496 1/2 mile out from English Harbor. (120 fms) hls. Sta. 115
- 497 W. S. W. of Lazaretto, N. W. 2 N. of Pelican (80 fms) hls. Sta. 48
- 498 Off Payne Bay Church, 3/4 mile out. (50 fms) hls. Sta. 32
- 499 Barbados (record lost).
- 500 Off Lazaretto Sta. 86
- 501 Sir Gilbert - Carter's, Barbados (land shells) Tag. 33
- 502 N. Central part Falmouth Bay (3-5 fms) Sta. 105
- 503 Lazaretto, 1 mile out. (80-90 fms) hls. Sta. 31.
- 504 Due west of Pelican Id. (75 fms) hls. Sta. 26
- 505 Due west of Pelican Id. 2 miles (85-90 fms) Sta. 27
- 506 S. W. of Lazaretto, N. by N. Pelican Id. (25-72 fms) hls. Sta. 47
- 507 Barbados, no record.
- 508 Barbados, inshore. shallow.
- 509 " (80 fms)

570 Barbados, no record.

511 Dredging Station 75, (35-60 fms.)

Notes on Rev. N. B. Watson's collection
(St. Lucy's Rectory) Barbados.

a Bulla about 1 inch long - found on beach
Phasianella, small reddish & pinkish
species common on beach at Shell Bay or
Sharks Hole - & Harry Smith's beach.
Terebra - large species is found in the
carenage - Watson's name for it is
"T. plumbea" - positive it lives there.
Cerion sp ("ura") found fossil.
Eurea bicolor common under stones.
Pinnaria biequeensis on rock cliff at
Crane Hotel.
Asaphis coccinea not common at Barb.
Trigonia concinna, Pecten nodosus, a
very fine large Murex of the rufus type
but so large and foliated it should be
considered distinct - name?
Conus agassizi, C. daucus, Melampus
melampus, Solarium large one,
Calliostoma sp. = Tortus as one. Tanachia
globosa and fragilis, Tritium femoralis
Oniscia viscus.

The collection is almost wholly of
beach collecting and is not of great
value - Aporrhais he says is not
Barbadian -
Conus cado - mulli & reticulosus.

Notes
on
Doris
from
D.S. 96

The ground work of color all over the dorsal portion is yellow thickly spotted over with bright red especially in the middle part. The red is less thickly ~~so~~ seen outside a middle portion - Toward the edges of the mantle the yellow changes into a delicate pink having a sheen like the poppy - the fluted edges of the mantle take on a red edging - The rhinophores are yellow with red tips. The branchiae are scarcely noticeable by reason of their ventral tint - The whole creature is gorgeous. The under side is ventral tinted with red borders on mantle and foot edges. The creature makes flopping movements as though swimming and is likely of pelagic habit. The process to the right of the head (just back of it) is red.

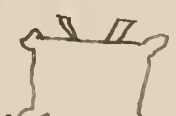
Note
on
Doris
from
Tag. 99.

Everywhere about the edges is bright red but in the central portions - Dorsal & Ventral - the color is a plum - When crawling the mantle spreads out very far to the sides, the foot being but a narrow portion underneath - Rather sluggish crawler.

Notes
on Doris
Tag 106

Ash, dirty, variegated with irregular brown spots - Rhinophores dark brown like the spots - The gills are much lighter in color (light gray & white on margin - Sines among rocks.

Notes on
Doris
Tag 117
(bottom)

Ground color black with longitudinal broken lines of bright yellow, the line just above the foot is expanded into a series of yellow spots - also the line just below the upper edge - The section is not round but rather squarish with pinched up or ridged corners  The raised corners are of light ~~yellow~~ ^{light} brown color - The rhinophores are short, dark at base & lighter on top - Along the dorsal margin of ridges are some bluish spots variegated with black - The rosette of gill plumes is light brown & dark tipped - The foot is lilac color - also the tentacles.

Tin
tags

1. Dead coral, 'tween tide, shore, Pelican Island May 11 ✓
2. " " " " " " " " " " ✓
3. *Oxytyla* from Dr. Bannister's garden. aetivabip
on lattice. near top. May 10- ✓
4. Bones from Dr. Bannister's garden. Marines from
various machine sources without definite
location ✓
5. Mixed lot of mollusks from 10 feet taken
by diver from chunks of old coral. Not
far from Pelican Island ✓
6. Bottle of mollusks from Sta. 1 (dredging) -
estimated 38 fms. small coral fragments
dead coral - dead bottom about $1\frac{1}{2}$ miles
S to S. by West of Pelican Island. ✓
7. Red box. *Pleurotomaria* from Dr. Sta. 6. The balance
shows drift ✓
8. Alcoholics from Dr. Sta. 3 - ✓
9. " " " " 5. ✓
10. " " " " 6. ✓
11. " " " " 4. ✓
12. from corals etc. near Bee Buoy N.W. from Pelican
Island about 10 to 20 ft. (diver) ✓
13. Same as 12. larger stuff - in tank. ✓
14. Shells in bag taken from fish pots. given us
without record. ✓
15. In tank - from corals etc. about Pelican Island. ✓
16. Pelican Island Tide pools - in tank. ✓
17. Aplysia from among low tide debris - Pelican Island ✓
18. Alcoholics from Sta. 10. - ✓
19. Dorid nudibranch - See page 5. also chiton
from coral block from inshore reefs. ✓

Tm tag
No.

- 20 Pelagic at Sta. 8. (Thursday, May 16/1) ✓
 21 Alcoholics of Sta. 11. ✓
 22 " " " 13 except the Ultimus
 which is 6 fms. Pelican Island, on Gorgonian ✓
 23 Sta. 11 except the Chione which is from fish
 pot nearer in shore. ✓
 24 Odds and ends in box - the loose shells are ✓
 beach drift from Pelican Island.
 25 Bought in Chris Shop, Bridgetown - Barbadian
 specimens.
 26 Off Meehan Point, shallow water. ✓
 27 Land shells from bottom terrace about one mile
 N. of Bridgetown - ✓
 29 Shore drift, marines - Pelican Island etc. ✓
 30 alcoholics from Dr. Sta. 21. ✓
 31 " " " " 24 ✓
 32 Dry shells given by Burke gathered by ✓
 himself from nearby beaches - with
 the apurbaia.
 33 Land shells from Sir Gilbert Carter's - in ✓
 alcohol tank
 34 Land shells from same station as last - in
 bottle. ✓
 35 Alcoholics from Dr. Sta. 30. ✓
 36 Small stuff from D.S. 25. Dry. also D.S. 39 ✓
 37 " " " " 10 Dry. ✓
 38 " " " " 18 Dry ✓
 39 Alcoholics from shore Sta. 3. ✓
 40 Base of shallow water shells Barbados + ✓
 some fossils from S. Gilbert Carter's.

- 41 Fossil Harpa from Sir Gilbert Carter's place
 (on 2nd terrace) Pleistocene? ✓
 42 Borneo Eggs from Sir Gilbert Carter's place. ✓
 43 Slug from Sir Gilbert Carter's - Expanded
 in alcohol.
 44 Alcoholics from Sta. 43. ✓
 45 " " " 40. ✓
 46 " " " 41. ✓
 47 Pickings from " " 30. ✓
 48 Land shells (alcohol) from Percy Haynes Place
 in Scotland distr.
 49 Borneo from same
 50 Land shells from primeval forest. alcohol. ✓
 51 G.D.M. & R. Land shells from Haynes Estate. ✓
 52 Land shells from near shore below Haynes
 summer house by the sea. ✓
 53 Land shells from Haynes summer place &
 marines from rocks above high tide at
 same place.
 55 Marine alcoholics from Sta. 51. ✓
 56 " " " " 48 & 41 with ✓
 some Physa from a little river at Haynes
 place.
 57 Alcoholics from D. Sta. 51. ✓
 58 " " shore dredging station ✓
 59 " " D. Sta. 44 ✓
 60 " Nudibranchs from Pelican Is. bet. tide.
 61 V. musica from shore opp. Pelican Is. in very
 shallow water. ✓
 62 Beach drift from fishermen - Barbados. ✓

- 63 Eolids expanded + in 5% formalin -
from Pelican Island reef.
- 64 Alcoholics from ✓
Bottom - D.S. 53: next above. D.S. 55: D.S. 59:
- 65 *V. musica* in alcohol - from opp. Pelican Is. ✓
- 66 Box of dry pickings from D. Sta. 38: ✓
- 67 Silaquaria from Sta. 67 - alcohol tank ✓
- 68 Diver's stuff from Carlisle Bay - 20 feet + ✓
- 69 Collection of Barbados Shells presented. Beach.
- 70 from diver's stuff in 15 to 20 ft. coral ✓
blocks - Carlisle Bay.
- 71 Murexes bought in Bridgetown.
- 72 " + " " " ✓
- 73 Box of larger Shells - bought, collected etc ✓
Barbados. - all shore or shallow water.
- 74 Odds & ends (dry) from various stations in ✓
the 70 ties -
- 75 Formalin. Sta. 78. The Diver is dull yellow
somewhat spotted in darker shade of yellow.
- 76 Bottom - Helix from Scotland Dist. Barbados
collected by Willis Mutton. Top. from Sta. 72.
- 77 Land shells (alcohol) from St. John's Church
Barbados. ✓
- 78 Land shells (alcohol tank) from St. John's
Church - same locality as last. ✓
- 79 Bottle of alcoholics from various D. Stations
the *Sensia* (?) from Sta. 80.
- 80 from curio-shop in Bridgetown - ✓
- 81 Bag of Shells bought in Bridgetown
curio shop - See notes inside in
re possibility of being foreign shells.

- 82 Low tide at Meedham's Point - low tide - coll.
by Miss Mullen - Barbados. ✓
- 83 Shore opp. Pelican Island.
- 84 Silaquaria from D. Sta. 79 - Tank ✓
- 85 In bottom of bottle fresh water. Stuff from dry pond
near Bridgetown, Barbados. ✓
- 86 Terebra from low tide sandy flat - near
Meedham Point. ✓
- 87 Burkes' collecting Newham Point. Barbados. ✓
- 88 Low tide at Bathsheba - Barbados. ✓
- 89 Burkes' collecting at Meedham Point. ✓
- 90 Boys brought in at Bathsheba. ✓
- 91 Tide pools at Bathsheba - in string formalin
not previously expanded.
- 92 Same as last but in string alcohol. ^{out} _{store}
- 93 Land shells from near Bathsheba - also
alcohol murexes from Sta. 88.
- 94 Off Meedham Point - shallow water. ✓
- 95 Bathsheba tide pools - ✓
- 96 Porters Woods near Halletown -
- 97 Mudbranch in form. from D. Sta. 96 - See color
note on p. 76.
- 98 Barbados beach - ✓
- 99 English Harbor, Antigua - on wave of barracks
along with the Murex - see note on p. 76
The Murex in the large tank (some 100
specimens) are from the stone wave of
the quay yard English Harbor, Antigua.
They were feeding upon *Perma* at about
low water mark & just below. - also the
Tritonium - & *Nassa* - all loose in big
tank.

Tags

- 100 Strombus p. from English Harbor, Antigua - ✓
 101 English Harbor, Antigua - Two stations in ✓
 harbor (Shells) in same bag.
 102 Alcoholized dredgings from English Harbor & ✓
 Falmouth Harbor Antigua - Sta. 102, 103, 104
 103 Iron rocks at mouth of English Harbor ✓
 Antigua - low tide.
 104 Same - ✓
 105 Same ✓
 106 Dorid from same station as 103. See p. 77.
 107 Land shells from Antigua. Munk's Hill. ✓
 108 Bag of beach shells from Falmouth Bay ✓
 Antigua - Bought from native.
 109 Rocks at low tide English Harbor Entrance - ✓
 Antigua
 110 do ✓
 111 do ✓
 112 do. ✓
 113 Pickings from Sta. 102 (bottom): much of lug ✓
 Harbor (as Sta. number):
 114 Shells from Signal Station mountain - Antigua ✓
 under stones - fossiliferous.
 115 Shells from Munk's Hill, Antigua.
 116 Land shells from Munk's Hill, Antigua ✓
 117 Bottom - Dorid from rocks opposite fort at ✓
 entrance of English Harbor, Antigua.
 ✓ 118 Entrance to English Harbor Antigua ✓
 ✓ 119 " " " " " also
 Entrance to Falmouth Harbor. ✓
 120 " " " " " ✓

In
tags

- 121 Rocks and Beach on E. Side of Falmouth ✓
 Bay.
 122 N. side of Antigua. ✓
 124 Bottom from Antigua (Mr. Forest). Top from ✓
 Barbuda (Mr. Forest).
 125 N. Side of Antigua
 126 Falmouth Bay drift on beach. ✓
 127 " " Rocks at low tide. ✓
 128 Same ✓
 129 Hls. Sta 103 - ✓
 130 Hls. Sta 105 ✓
 131 Hls. Sta 116 ✓
 132 Hls. Sta. 115 ✓
 133 Hls. Sta. 116 ✓
 134 Land shells Willoughby Hill
 135 Small shells from Falmouth Harbor ✓
 136 Falmouth Harbor beach ✓
 137 Fresh-water ponds between English Harbor ✓
 and Barbuda ✓

Xth Aug

138 Parasites from Holothurians skin.
Parham Bay tide pool. —

139

140

141 Half-Moon Bay, Antigua —

142 — Parham + Cedar Valley (land shells)

143 { Willoughby Bay Land Shells —
Freshwater Pond, Falmouth ✓
Fresh water snails —

144 Falmouth Harbor. Shallows. Eng. Harb. Rot. tide. —

145

146 Half Moon Bay, Antigua —

147

148 Parham Bay (3) —

Wedge of St. III (1) —

Pillbox to Hercules (2) —

English Harbor (4) —

149 Half Moon Bay Antigua —

AMBASSADE DE FRANCE
A WASHINGTON

Messieurs les Gouverneurs
de la Guadeloupe et
de la Martinique.

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A. WASHINGTON

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